**Initial Project Planning Template**

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| Date | 5 July 2024 |
| Team ID | 739719 |
| Project Name | Garment Workers Productivity Predictions |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create a product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | **Registration**:  Collect historical productivity data of garment workers, including variables such as worker details, environmental conditions, and production metrics. | USN-1 | As a user,I can collect historical productivity data of garment workers, including variables such as worker details, environmental conditions, and production metrics. | 3 | High | SRIRAM MARKA  MEGHANA ANUMANDLA | 02/07/24 | 04/07/24 |
| Sprint-1 | **Registration**:  Clean and preprocess the collected data to handle | USN-2 | As a user,I can clean and preprocess the collected data to handle missing values, outliers, and ensure data quality for analysis. | 2 | High | BINDHU PRIYA  BANDARI  SAIVINAY  CHINTHALA | 05/07/24 | 07/07/24 |
| Sprint-2 | This is associated with feature engineering, which enhances productivity prediction models. | USN-3 | As a user,I can engineer features such as worker efficiency ratios, time-based factors, and environmental impact to enhance productivity prediction models. | 3 | Medium | SRIRAM MARKA  SAIVINAY  CHINTHALA | 08/07/24 | 10/07/24 |
| Sprint-1 | **Registration:**  Select and implement suitable machine learning models (e.g., Random Forest, Gradient Boosting) to predict garment workers' productivity based on historical data. | USN-4 | As a user,I can select and implement suitable machine learning models (e.g., Random Forest, Gradient Boosting) to predict garment workers' productivity based on historical data. | 5 | High | MEGHANA ANUMANDLA  BINDHU PRIYA  BANDARI | 11/07/24 | 13/07/24 |
| Sprint-2 | **Login:**  Evaluate model performance using metrics such as Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), and R-squared (R2) to ensure accuracy and reliability of predictions. | USN-5 | As a user,I can evaluate model performance using metrics such as Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), and R-squared (R2) to ensure accuracy and reliability of predictions. | 2 | High | SRIRAM MARKA  MEGHANA ANUMANDLA | 14/07/24 | 15/07/24 |